31 December 1950

REMORANIUM TO THE FILE

SUBJECT: Necting with representatives to discuss possible 25X1A5a1 further ministration of the CFC-2 Transmitter-Receiver combination.

1. On 9 December 1950, a meeting was held in the Masshington office, the Commonwealth building, to dispuse the possible further ministerisation of the CFC-2 Transmitter-Receiver combination. The following pursons were present:

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Section representative Sections Loose

- 2. The subject was stated as a requirement, the substance of which is to reduce the size of both the trummatter CFC-T LA, and the receiver CFC-R2, perticularly the thickness of the units. Verious aspects of the problem were discussed, including the power output requirements, frequency coverage desired, receiver selectivity and transmitter stability, effective range, and possible duty cycle considerations.
- 3. Two basic approaches to the problem were discussed. One would be a completely translatorized transmitter and receiver with a separate bettery pack. The other would be a translatorized receiver, a hybrid transmitter (translatorized except for the final power amplifier stage) and a separate battery pack. The following table shows a comparison of the two possibilities as to size and power output.

SIZZ

PREJEW WIT	HYPRID	WITT	Completely TRANSISTORIZED UNIT
Receiver 61/2" x 4" x 2" Receiver 611/16" x 3" x 15/32" Bestery Pack (packed in pouch w/x/MT/A	5" X 5" X	2" x 7/8" 3" x 1 5/32" 11/2 x 11/4"	5" x 2" x 7/8" 5" x 3" x 1 5/32"



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combination.

A. F. POWER CUTPUT (transmitter)

AR	BEET UNITY	RIBRID UNIT	PASSISTATION USES
25- 54 mms	.250 watte	.250 wette	-500 wates

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4. The cost of a progress to implement the reduction in size as discussed shows was not estimated specifically. However, did mention that the cost of the translators alone in the transmitter would equal or exceed the total cost of the present tubetype transmitter. He further mentioned that the cost of engineering the present model of the transistorised receiver was about "balf a million dollars", with a side comment that cortain of the design features of that receiver could be utilized in the design of a truncistorized transmitter, thus effecting at least some reduction in the cost. In order to obtain a "quotation", it would be necessary that we draw up 25X1A5a1 specifications and subsit them to

5. The meeting adjourned with no consistment from either OC, but with at least a mutual understanding of the problem and possible solutions inherent in a size reduction progress.

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